AMENDMENTS TO THE CLAIMS

Please AMEND claims 1, 2, 5, 8-11, 16-18, 21-25, 31-33, 36 and 37, and CANCEL

claims 3, 4, 6, 7, 12-15, 19, 20, 26-30, 34, 35 and 38 without prejudice or disclaimer, in

accordance with the following:

1. (Currently Amended) A method for managing an optical recording medium

having at least one temporary defect management area (TDMA), at least one defect management

area (DMA) and at least one spare area in a data area, said method comprising:

replacing data written in a defective area by writing the data written in the a defective

area to the at least one spare area as replacement data if the defective area within the a data area

of the optical recording medium is detected; and

writing defect management information in the at least one temporary defect management

area for access to the data written in the spare area, wherein said defect management information

for access to the data-written in the spare area is identified by at least one navigation pointer

includes location information indicating a next available address of the at least one spare area;

and

writing the defect management information written in the at least one temporary defect

management area to the at least one defect management area when the optical recording medium

is to be finalized.

2. (Currently Amended) The method according to claim 1, wherein in the writing

step, the defect management information is written as temporary defect list information and

Reply to Office Action of November 28, 2008

temporary disc structure information in the at least one temporary defect management area,

wherein the location information is written in the temporary disc structure information, and the

temporary defect list information includes a defect entry corresponding to the defective area and

the method further comprises managing the defect list information, wherein the defect list

information includes navigation pointer information including defect entries corresponding to

actual written replacement data, and writing location information of the next available spare area

for successive replacement writing.

3-4. (Cancelled)

5. (Currently Amended) The method according to claim 2, wherein the defect-list

information is temporary defect list information has with a recording size smaller than four

clusters.

6-7. (Canceled)

8. (Currently Amended) The method according to claim 2, wherein a recording size

of the temporary defect list information to be written is varied to a recording size greater than

3

one cluster when the a number of defect entries exceeds one cluster of recording size.

Docket No.: 0465-1029P

9. (Currently Amended) The method according to claim 8, wherein the recording

size of the temporary defect list information to be written is varied to a recording size greater

than one cluster but smaller than four clusters.

10. (Currently Amended) The method according to claim 2, wherein the optical

recording medium is a single layer Blu-ray disc of writable once type (BD-WO) having an inner

spare area and an outer spare area assigned thereto, and the location information includes two

pointers, the two pointers indicating next available addresses of the inner spare area and outer

spare area, respectively. defect list information includes writing location information of the inner

spare area available for successive replacement writing of replacement data, and writing location

information of the outer spare area available for successive replacement writing of replacement

data.

11. (Currently Amended) The method according to claim 2, wherein the optical

recording medium is a dual layer Blu-ray disc of writable once type having an inner spare area

and an outer spare area assigned to each of a first layer and a second layer respectively, and the

location information includes four pointers, the four pointers indicating next available addresses

of the inner spare area and outer spare area within the first layer and the second layer,

respectively. defect list information includes writing location information of the available inner

spare areas of the first and second layers for successive replacement writing of replacement data,

and writing location information of the available outer spare areas of the first and second layers

4

for successive replacement writing of replacement data.

EHC/SSK:tm

Docket No.: 0465-1029P

Application No. 10/670,332 Amendment dated February 27, 2009 Reply to Office Action of November 28, 2008

12-15. (Cancelled)

16. (Currently Amended) The method according to claim 2 15, wherein the

Docket No.: 0465-1029P

temporary defect list information includes a defect list terminator for indicating a termination of

writing of the defect entry entries.

17. (Currently Amended) The method according to claim 2 15, wherein the <u>location</u>

information points to a first sector of a next available cluster of the at least one spare area writing

location-information is writing location information corresponding to a first sector of a first

cluster of the spare area available for successive replacement writing of new replacement data.

18. (Currently Amended) The method as claimed in claim 2-15, wherein the

temporary disc definition structure information includes physical sector number information

corresponding to a writing location of the temporary defect list information.

19-20. (Cancelled)

21. (Currently Amended) A recording medium medium, comprising:

<u>a</u> at least one spare area within a data area, said spare area configured to store

5

replacement data;

EHC/SSK:tm

Application No. 10/670,332

Amendment dated February 27, 2009

Reply to Office Action of November 28, 2008

Docket No.: 0465-1029P

a temporary defect management area for configured to store defect management

information to manage managing a defective area within the data area when the recording

medium is under a non-finalized state; and

a defect management area configured to store the defect management information to

manage the defective area when the recording medium is under a finalized state;

a portion of said at least one spare area capable of storing replacement data,

wherein data written in the defective area is written in replaced by writing the data

written in the defective area to the portion of said at least one spare area as the replacement

data; data, and said defect management information includes location information indicating a

next available address of the spare area, and the defect management information written in the

temporary defect management area is written to the defect management area when the recording

medium is to be finalized.

defect management information in the at least one temporary defect management area

for access to the data written in the portion of the at least one spare area, wherein said defect

management information for access to the data written in the spare area is identified by at least

one navigation pointer.

22. (Currently Amended) The recording medium according to claim 21, wherein the

recording medium is a single layer Blu-ray disc of writable once type (BD-WO) having an inner

spare area and an outer spare area assigned thereto, and the location information includes two

pointers, the two pointers indicating next available address of the inner spare area and outer spare

area, respectively. defect management information includes writing location information of the

Docket No.: 0465-1029P

inner spare area available for successive replacement writing of replacement data, and writing

location information of the outer spare area available for successive replacement writing of

replacement data.

23. (Currently Amended) The recording medium according to claim 21, wherein the

recording medium is a dual layer Blu-ray disc of writable once type (BD-WO) having an inner

spare area and an outer spare area assigned to each of a first layer and a second layer

respectively, and the <u>location information includes four pointers</u>, the four pointers indicating next

available addresses of the inner spare area and outer spare area within the first layer and the

second layer, respectively. defect management information includes writing location

information of the available inner spare areas of the first and second layers for successive

replacement writing of replacement data, and writing location information of the available outer

spare areas of the first and second layers for successive replacement writing of replacement data.

24. (Currently Amended) The recording medium according to claim 21,

wherein the defect management information is written as temporary defect list

information and temporary disc structure information in the at least one temporary defect

management area,

wherein the location information is written in the temporary disc structure information

and the temporary defect list information includes a defect entry corresponding to the defective

area. and the defect list information includes navigation pointer information including defect

7 EHC/SSK:tm

Application No. 10/670,332 Amendment dated February 27, 2009

Reply to Office Action of November 28, 2008.

entries corresponding to actual written replacement data, and writing location information of the

next available spare area for successive replacement writing.

25. (Original) The recording medium according to claim 24, wherein the

recording medium is a Blu-ray disc of writable once type (BD-WO).

26-30. (Cancelled)

31. (Currently Amended) The recording medium according to claim 24 30, wherein

the temporary defect list information includes a defect list terminator for indicating a termination

of writing of the defect entry entries.

32. (Currently Amended) The recording medium according to claim 24 30, wherein

the location information points to a first sector of a next available cluster of the spare area.

wherein the writing location information is writing location information corresponding to a first

sector of a first-cluster of the spare area available for successive replacement writing of new

replacement data.

33. (Currently Amended) The recording medium according to claim 24 30, wherein

the temporary disc definition structure information includes physical sector number information

corresponding to a writing location of the temporary defect list information.

EHC/SSK:tm

Docket No.: 0465-1029P

8

Reply to Office Action of November 28, 2008

34-35. (Cancelled)

36. (Currently Amended) An apparatus for managing an optical recording medium

Docket No.: 0465-1029P

having at least one temporary defect management area (TDMA), at least one defect management

area (DMA), and at least one spare area in a data area, said apparatus comprising:

a pickup configured to read data from the optical recording medium and write data on

the optical recording medium; and

a controller, operatively coupled to the pickup, configured to control the pickup to write

means for replacing data written in a defective area by writing the data written in the a defective

area to the at least one spare area as replacement data if the defective area within the a data area

of the optical recording medium is detected; and control the pickup to write means for writing

defect management information in the at least one temporary defect management area for access

to the data written in the spare area; and control the pickup to write the defect management

information written in the at least one temporary defect management area to the at least one

defect management area when the optical recording medium is to be finalized,

wherein said defect management information for access to the data written in the spare

area is identified by at least one navigation pointer includes location information indicating a

next available address of the at least one spare area.

37. (Currently Amended) The apparatus according to claim 36, wherein the controller

controls the pickup to write the defect management information-is written as temporary defect

list information and temporary disc structure information in the at least one temporary defect

Application No. 10/670,332

Amendment dated February 27, 2009

Reply to Office Action of November 28, 2008

Docket No.: 0465-1029P

management area area, wherein the location information is written in the temporary disc structure

information, and the temporary defect list information includes a defect entry corresponding to

the defective area. by said means for writing defect management information, and the defect list

information includes navigation pointer information including defect entries corresponding to

actual written replacement data, and writing location information of the next available spare area

for successive replacement writing.

38. (Cancelled)

10 EHC/SSK:tm